

Fulwood and Cadley Primary School

Computing Policy

Reviewed and updated by: Mr Holding

Leader of Computing

Date Created: Nov 2023

This policy has been updated in line with the requirements of the General Data Protection Regulation (GDPR), which came into effect on 25 May 2018, to include further information on consent, data security and the responsibilities of the data protection officer (DPO). The updated policy also includes reference to the 2023 version of Keeping Children Safe in Education.

Review date: Nov 2024

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Statement of intent

All pupils at Fulwood and Cadley have the right to have rich, deep learning experiences that balance all the aspects of computing. With technology playing such a significant role in society today, we believe 'Computational thinking' is a skill that children must be taught if they are to be able to participate effectively and safely in this digital world and we understand that computer technology is an essential resource for supporting teaching and learning. The internet, and other digital and information technologies, open up opportunities for pupils and play an important role in their everyday lives.

Our aim is to ensure that children become digitally literate so that they are able to express themselves and develop their ideas through information and computer technology– at a level suitable for the future workplace and as active participants in a digital world.

We teach a curriculum that enables children to become effective users of technology who can:

- Understand and apply the essential principles and concepts of Computer Science, including logic, algorithms and data representation.
- Analyse problems in computational term, and have repeated practical experience of writing computer programs in order to solve such problems.
- Evaluate and apply information technology analytically to solve problems.
- Communicate ideas well by utilising appliances and devices throughout all areas of the curriculum.

1. Legal framework

This policy has due regard to all relevant legislation and statutory guidance including, but not limited to, the following:

- DfE (2023) 'Keeping Children Safe in Education (KCSIE) 2023'
- Data Protection Act 2018
- General Data Protection Regulation (GDPR)
- Equality Act 2010
- DfE (2013) 'Computing programmes of study: key stages 1 and 2'

This policy operates in conjunction with the following school policies:

- Online Safety Policy
- Data Protection Policy
- Technology Acceptable Use Agreement for Pupils
- Technology Acceptable Use Agreement for Staff
- Pupil Equality, Equity, Diversity and Inclusion Policy

2. Roles and responsibilities

The governing board will be responsible for:

- Monitoring the effectiveness of the ICT curriculum.
- Monitoring the progress and attainment of pupils in ICT.
- Holding the headteacher and ICT subject leader to account for pupils' ICT attainment and progress, and the delivery of the ICT curriculum.
- Ensuring the school has appropriate filters and monitoring systems in place on its ICT system to safeguard pupils during ICT lessons.

Overall responsibility for monitoring the teaching of ICT throughout the school will lie with the ICT team. The ICT team will make decisions on:

- How ICT should support, enrich and extend the curriculum.
- The provision and allocation of resources.
- The ways in which the need for developments in the school's ICT system can be assessed and records can be kept for these developments.
- How ICT can benefit the aims and objectives of the whole school.

The ICT subject leader and headteacher will be responsible for overseeing the implementation and reviewing of this policy.

The ICT subject leader will be responsible for:

- Monitoring the progression of teaching and learning in ICT.
- Managing resources and advising staff on the use of materials.
- Supporting teaching staff to deliver the ICT curriculum and monitoring the quality of teaching and learning.
- Keeping abreast of technological developments and using these to inform practice.

• Leading staff training on new ICT initiatives.

Teachers will be responsible for:

- Planning and delivering lessons in line with this policy.
- Providing equality of opportunity to all pupils through their teaching approaches and methods.
- Keeping up-to-date assessment records.
- Ensuring pupils' development of skills and knowledge progresses through their learning and understanding of ICT.
- Setting pupils appropriate targets based on their needs and prior attainment.
- Maintaining an enthusiastic approach to ICT.
- Taking part in ICT training and other CPD opportunities.

The ICT technician will be responsible for:

- Maintaining and keeping ICT equipment in good working order.
- Dealing with any reports of broken, damaged or faulty equipment.
- Ensuring the school's Cyber Response and Recovery Plan is adhered to.
- Carrying out checks on all computers once per term.
- Adjusting access rights and security privileges in the interest of the school's data, information, network and computers.
- Monitoring the computer logs on the school's network and reporting inappropriate use to the headteacher.
- Disabling the user accounts of staff and pupils who do not follow school policies, at the request of the headteacher.
- Assisting staff with authorised use of ICT facilities, if required.
- Assisting the headteacher in all matters requiring reconfiguration of security and access rights, and all matters relating to this policy.
- Accessing files and data to solve problems for a user, with their authorisation if an investigation is required by the headteacher, authorisation from the user is not required.

Pupils will be responsible for:

- Using the school's ICT facilities appropriately.
- Being aware of the school's rules around the use of ICT equipment during lessons.
- Understanding how the use of ICT improves learning.

Parents will be responsible for encouraging ICT skills and safe ICT use at home.

3. Overall curriculum aims

The school aims to assist pupils in achieving attainment targets set out in the national curriculum. By the end of each key stage, pupils will be expected to know, apply and understand the matters, skills and processes specified in this policy.

The school will meet the general aims set out by the DfE for computing programmes of study, which means pupils:

- Can understand and apply the fundamental principles and concepts of computer science, including abstraction, logic, algorithms and data representation.
- Can analyse problems in computational terms and have repeated practical experience of writing computer programs to solve such problems.
- Can evaluate and apply information technology, including new or unfamiliar technologies, analytically to solve problems.
- Are responsible, competent, confident and creative users of information and communication technology.

4. The curriculum (see curriculum map on school website for further details)

In KS1, pupils will be taught to:

- Understand what algorithms are, how they are implemented as programs on digital devices, and that programs execute by following precise and unambiguous instructions.
- Create and debug simple problems.
- Use logical reasoning to predict the behaviour of simple programs.
- Use technology purposefully to create, organise, store, manipulate and retrieve digital content.
- Recognise common uses of information technology beyond schools.
- Use technology safely and respectfully, keeping personal information private.
- Identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.

In KS2, pupils will be taught to:

- Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems.
- Solve problems by decomposing them into smaller parts.
- Use sequence, selection and repetition in programs.
- Work with variables and various forms of input and output.
- Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.
- Understand computer networks (including the internet), how they can provide multiple services (such as the World Wide Web), and the opportunities they offer for communication and collaboration.
- Use search technologies effectively, appreciate how results are selected and ranged, and be discerning in evaluating digital content.
- Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and present data and information.
- Use technology safely, respectfully and responsibly.
- Recognise acceptable and unacceptable behaviour.
- Identify a range of ways to report concerns about content and contact.

5. Homework

When applicable, technology will be used as part of homework for children. Families who are unable to access online learning will be supported to do so.

6. Assessment

Teachers will record pupils' ability and progression through two types of assessment – formative and summative.

Formative assessments will be carried out during lessons, based on individual objects and outcomes – these assessments will be conducted informally by the class teacher.

Summative assessments will be completed at the end of each term. Pupils' capabilities will be reviewed using open-ended tasks, providing them with an opportunity to demonstrate their capabilities in relation to the unit of work.

Pupils' progress will be tracked, and individual targets will be set; pupils will be regularly assessed against these targets.

Where a pupil is not meeting the expected standard, a supportive intervention will be put in place – this could include the provision of a TA.

ICT skills and competencies will be reliably and consistently assessed and recorded as part of ICT lessons, as well as across the curriculum in other subjects.

7. Teaching

The teaching of ICT will ensure that pupils of all abilities are able to engage with the curriculum as effectively as possible, enhancing their ICT knowledge and skills.

The skills needed for pupils to access the wider curriculum using ICT will be mapped and developed to ensure that pupils can use ICT applications progressively through the curriculum.

Teachers will use ICT to allow pupils to investigate, solve problems, refine their work, learn from their mistakes and reflect critically.

There will be a good balance across the whole school between the high-quality use of ICT to support and enhance teaching and learning, and the individual pupil's productive use of ICT for their own learning.

When administering homework tasks, teachers will be sensitive to the fact pupils may not have access to a computer at home.

ICT will be used to support and extend learning beyond the school, through activities integrated with pupils' school-based learning.

ICT learning will permeate through the entire curriculum giving children of all abilities the chance to learn and present their learning through technology.

8. Equal opportunities

All pupils will be provided with equal learning opportunities regardless of their background or characteristics, in line with the school's Pupil Equality, Equity, Diversity and Inclusion Policy.

To ensure pupils with SEND can achieve to the best of their ability, targets for pupils with SEND will be adapted and the delivery of the curriculum will be differentiated for these pupils.

The curriculum and targets will also be adapted for other pupils based on their needs, e.g. pupils with EAL.

Where possible, ICT will be used in a specialist way to support pupils with SEND. The school will look to utilise software systems that can be modified to aid language, spelling or reading development.

The school will aim to maximise the use and benefits of ICT as one of many resources to enable all pupils to achieve their full potential.

9. Online learning and safeguarding

The school recognises the importance of teaching pupils about online safety, the potential dangers of the internet and their responsibilities when using communication technology – as set out in the school's Online Safety Policy.

As part of the school's commitment to the principles outlined in the most recent version of KCSIE, the school will:

- Offer a safe online environment through filtered internet access.
- Ensure the filtering systems in place will prevent pupils from accessing terrorist and extremist materials, in accordance with the school's Online Safety Policy and the Prevent duty.
- Take care to ensure the use of filtering and monitoring does not cause "over blocking", which may lead to unreasonable restrictions on what pupils can be taught.
- Run assemblies on a termly basis about the potential dangers of the internet and how to stay safe online- led by AH each term for each Key Stage.
- Teach pupils about internet safety and cyberbullying during PSHE lessons.

Pupils and staff who use the school's ICT facilities inappropriately will be reported to the headteacher, and the DSL where appropriate.

The ICT technician will keep internet filters and other safeguarding controls up-to-date, to avoid misuse and protect pupils.

10. Health and safety

All electrical wires and sockets, where possible, will be kept out of the way of pupils.

Visual electrical inspections will be undertaken by the ICT technician on a weekly basis – any other problems will be reported immediately to the health and safety officer and ICT technician.

Lock ups for iPads will be free from items on top of them and leads will be monitored weekly.

11. Implementation of this policy

The provision of the ICT curriculum will be monitored and assessed by the ICT subject leader and headteacher.

The suitability of all ICT equipment and programs will be assessed and updated, if necessary, by the ICT technician to ensure they are sufficient for effective learning.

Staff will be provided with high-quality training regarding both curriculum delivery and the safeguarding issues around e-safety.

Any breach of this policy will be reported to the headteacher.

Use of the school's internet connection and network use will be recorded and monitored by the ICT technician.

The ICT technician has the ability to remotely view or interact with any computers on the school's network. The ICT technician will use this to help implement this policy and to identify and solve any problems.

12. Monitoring and review

This policy will be reviewed annually by the ICT subject leader and headteacher.

Any changes made to this policy will be communicated to all members of staff.

All members of staff directly involved with the teaching of ICT will be required to familiarise themselves with this policy.

The next scheduled review date for this policy is Nov 2024.